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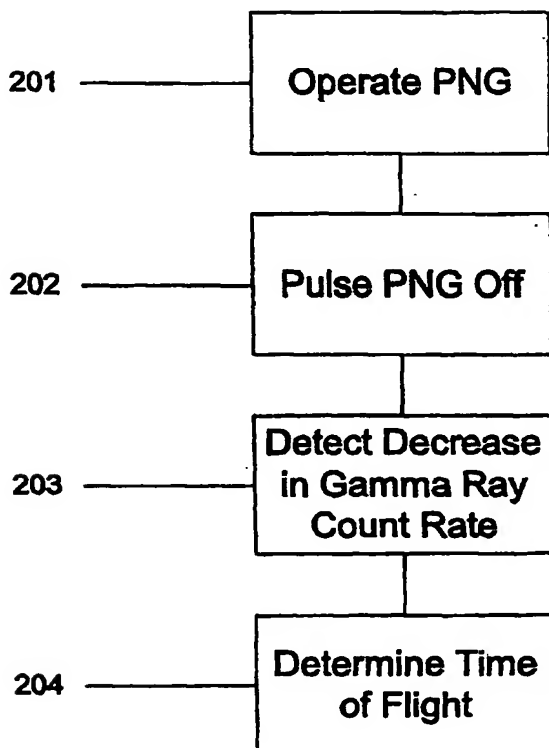
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(54) Title: MEASURING MUD FLOW VELOCITY USING PULSED NEUTRONS



(57) Abstract: The invention relates to methods and apparatus for determining downhole mud flow rates and other downhole parameters. A method for determining a downhole parameter includes operating a pulsed neutron generator (6), pulsing the pulsed neutron generator (6) off, detecting a substantially unactivated drilling fluid slug at a known distance (d) from the pulsed neutron generator (6), and determining a time-of-flight (t) for the unactivated drilling fluid slug to travel from the pulsed neutron generator (6) to a detection point.



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